

Procedure: <i>Estimating Checklist</i>	
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1. Purpose: To identify items that should be considered when preparing estimates for a project. (To prevent the sin of omission.)

2. Creating Procedures:

P-PE-160 - Estimating Required Quantities

3. Contents:

This is a checklist of needed resources that should be considered when preparing the estimates for a project. This checklist is intended to prompt the developers to consider items or resources that they might otherwise overlook.

4. Format:

Following Page

5. Notes:

The checklist that follows was taken from the book “Managing a Programming Project” by Philip W. Metzger and John Boddie (pages 52-55).

Estimating Checklist

Project ID: _____

Prepared By: _____

Date: _____

Manpower:

- ___ Programming Manpower
 - ___ Programmers
 - ___ First-Level programming managers
 - ___ Subcontractor Support
- ___ Support Personnel
 - ___ Analysts
 - ___ Designers
 - ___ Testers
 - ___ Managers
 - ___ Engineers
 - ___ Secretaries
 - ___ Typists
 - ___ Instructors
 - ___ Computer Operators
 - ___ Administrative Assistants
 - ___ Financial Assistants
 - ___ Librarians
 - ___ Technical Writers
 - ___ Clerical Assistants
 - ___ Couriers
 - ___ Consultants
 - ___ Subcontractor

Equipment:

- ___ Computer time/access
 - ___ Users
 - ___ Operational Programmers
 - ___ Support Programmers
 - ___ Analyst and Designers
 - ___ Management
 - ___ Maintenance Personnel
- ___ Users
 - ___ Compile and Build
 - ___ Module Test
 - ___ Integration Test
 - ___ System Test
 - ___ Acceptance Test
 - ___ Site Test
 - ___ Project Support Programs
 - ___ Simulation
 - ___ Report Generation
 - ___ Project Management
 - ___ Estimation
 - ___ Program Maintenance
 - ___ Hardware Maintenance
 - ___ Training
 - ___ Contingency Reserve

Estimating Checklist

Project ID: _____

Prepared By: _____

Date: _____

- ___ Configuration Needed
 - ___ Target (customer) Computers
 - ___ Support Computers
- ___ Other Equipment Cost
 - ___ Office Support System
 - ___ PCs and Workstations
 - ___ LAN
 - ___ Copiers
 - ___ FAX
 - ___ Communications (phones, etc.)
 - ___ PCs and Workstations
- ___ Special changes to standard equipment
 - ___ Remote Devices (notepads, etc.)

Miscellaneous:

- ___ Physical Facilities
 - ___ General (office space, furniture, etc.)
 - ___ Special for your project
 - ___ Document Storage
 - ___ Tape Storage
 - ___ Disk Storage
 - ___ Classified Storage
 - ___ Program pickup and drop area
 - ___ Off-site data archive
 - ___ Copier equipment area
- ___ Supplies
 - ___ General (paper, pencils, etc.)
 - ___ Special for your project
 - ___ Computer printer paper
 - ___ Tapes
 - ___ Disk packs/diskettes
 - ___ Carrying Cases
- ___ Relocations
 - ___ Moving People
 - ___ Moving equipment and supplies
- ___ Trips
 - ___ Reasons
 - ___ For computer time
 - ___ To customer
 - ___ To other contractors/subcontractors
 - ___ To professional meetings and symposiums
 - ___ Number of trips
 - ___ Number of people per trip
 - ___ Duration
- ___ Special publications costs (work subcontracted to outside publications organizations)

Estimating Checklist

Project ID: _____
 Prepared By: _____
 Date: _____

- ___ Other
 - ___ Purchased software
 - ___ Leased software
 - ___ Shift premium
 - ___ Overtime payment
 - ___ Per diem payment
 - ___ Special training aids

Factors that should increase your estimate:

- ___ Vague job requirements
- ___ Innovation required, your team will be using a tool or technique for the first time
- ___ System will have more than one user
- ___ System will be installed at more than one location
- ___ System is real-time
- ___ System replaces a system that is used by multiple groups or locations
- ___ System consolidates functionality of multiple existing systems
- ___ Interfaces with other systems are ill-defined or complex
- ___ Your programs are to interface with other programs
- ___ You are to modify someone else's program
- ___ Your analyst have not worked on a similar application
- ___ Your designers have not worked on a similar application
- ___ Your programmers have not worked on a similar application
- ___ Your managers have not worked on a similar application
- ___ The system is larger than those you have usually worked on
- ___ You must share computer time with other projects
- ___ You do not have complete control of computer resources
- ___ System databases are very large
- ___ The existing data that will be used is of either poor or unknown quality
- ___ You are obliged to follow government configuration management standards
- ___ Your background is not in programming
- ___ Customer will supply data base
- ___ Customer will supply test data
- ___ Data base is complex or not yet defined
- ___ Data base is classified for security reasons
- ___ Access to computer is unpredictable
- ___ Your designers are not expert programmers
- ___ Your confidence in personnel continuity is low
- ___ You have little or no choice of personnel who work for you
- ___ The customer must sign off on your design
- ___ Other agencies must sign off on your design
- ___ Customer is inexperienced in data processing
- ___ Customer is very experienced in data processing
- ___ Customer is beset by internal political problems
- ___ Your company is beset by internal political problems
- ___ You expect much change during development (requirements, customer personnel)
- ___ The system has a large number of functions
- ___ The working environment promises many interruptions